What is claimed is:

1. A method of joining a rubber magnet to a yoke comprising the steps of:

applying an adhesive to an inner peripheral surface of a cylindrical peripheral wall section of said yoke;

forming a cylindrical rubber magnet by rolling a plate-like rubber magnet into a cylindrical shape; and

inserting said cylindrical rubber magnet into said yoke to join said cylindrical rubber magnet to said inner peripheral surface of said yoke by sliding an outer peripheral surface of said cylindrical rubber magnet over said inner peripheral surface of said peripheral wall section;

wherein said cylindrical rubber magnet has a plurality of grooves formed in said outer peripheral surface at predetermined intervals in a peripheral direction of said cylindrical rubber magnet, said grooves extending in said outer peripheral surface in a direction in which said cylindrical rubber magnet is inserted into said yoke and being open on both ends of the direction of insertion and being also open outwardly in a radial direction of said cylindrical rubber magnet.

2. The method of joining a rubber magnet to a yoke as defined in claim 1, wherein said adhesive is continuously or discontinuously applied to a middle region of said inner

peripheral surface in said peripheral direction; and

an interval between adjacent two of said plurality of grooves and a cross sectional shape of each of said grooves are set so that, while said outer peripheral surface of said cylindrical rubber magnet is being slid over said inner peripheral surface of said yoke, said adhesive located between said adjacent grooves gets into the adjacent grooves.

3. The method of joining a rubber magnet to a yoke as defined in claim 2, wherein said interval is set in a range of 5% to 20% of a diameter of said outer peripheral surface of said cylindrical rubber magnet; and

said cross sectional shape is a V shape.

4. The method of joining a rubber magnet to a yoke as defined in claim 1, wherein a plurality of recesses are formed in said outer peripheral surface of said cylindrical rubber magnet in addition to said grooves, said plurality of recesses being open outwardly in the radial direction.

5. A method of joining a rubber magnet to a yoke comprising the steps of:

applying an adhesive to an inner peripheral surface of a cylindrical peripheral wall section of said yoke;

forming a cylindrical rubber magnet by rolling a plate-like rubber magnet into a cylindrical shape; and

inserting said cylindrical rubber magnet into said yoke to join said cylindrical rubber magnet to said inner peripheral surface of said yoke, by sliding an outer peripheral surface of said cylindrical rubber magnet over said inner peripheral surface of said peripheral wall section;

wherein said cylindrical rubber magnet has a plurality of recesses formed in said outer peripheral surface of said cylindrical rubber magnet in a dispersed state, said plurality of recesses being open outwardly in a radial direction of said cylindrical rubber magnet.

6. The method of joining a rubber magnet to a yoke as defined in claim 5, wherein an area of an opening of each of said plurality of recesses and an interval between adjacent two of said plurality of recesses are set so that said adhesive can get into a gap between said outer peripheral surface of said cylindrical rubber magnet and said inner peripheral surface of said peripheral wall section of said yoke and can also get into said recesses progressively one after another.

7. The method of joining a rubber magnet to a yoke as defined in claim 6, wherein said area of the opening is set in a range of 0.5 $mm^2$ to 1.5 $mm^2$, and said interval between the adjacent recesses is set in a range of 1.5 mm to 3 mm.